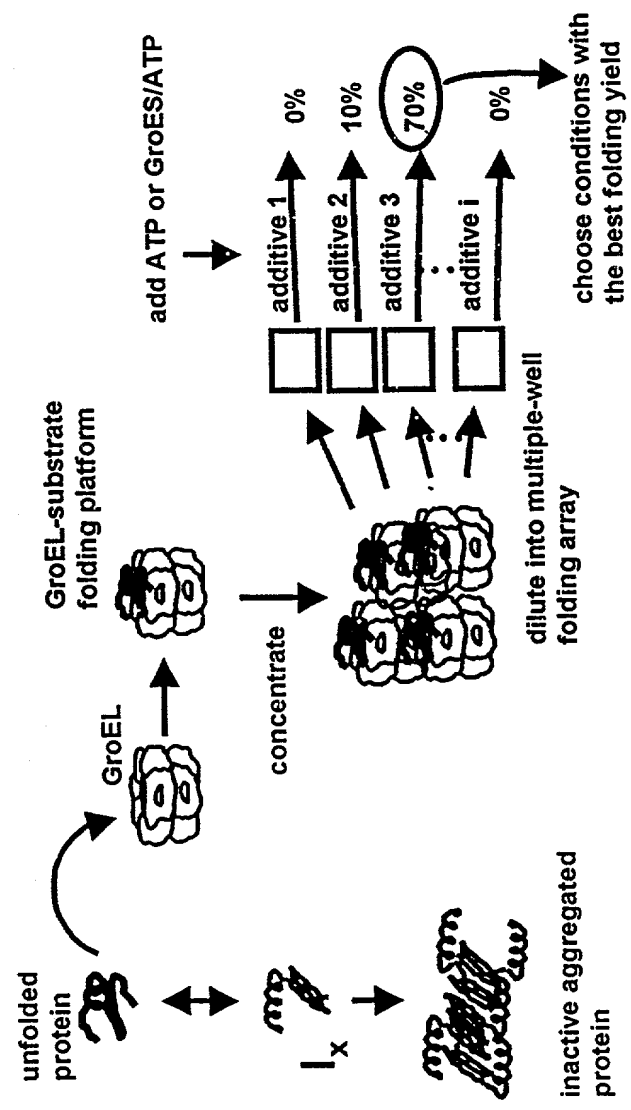
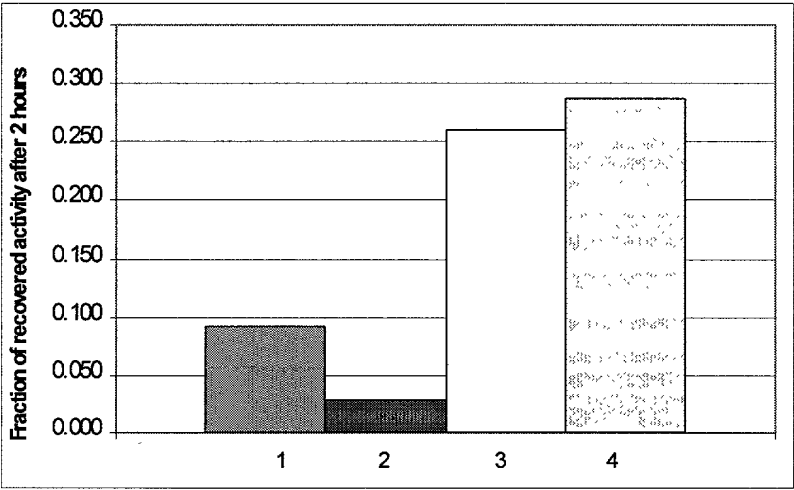


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Malate dehydrogenase refolding from immobilized GroEL on beads.

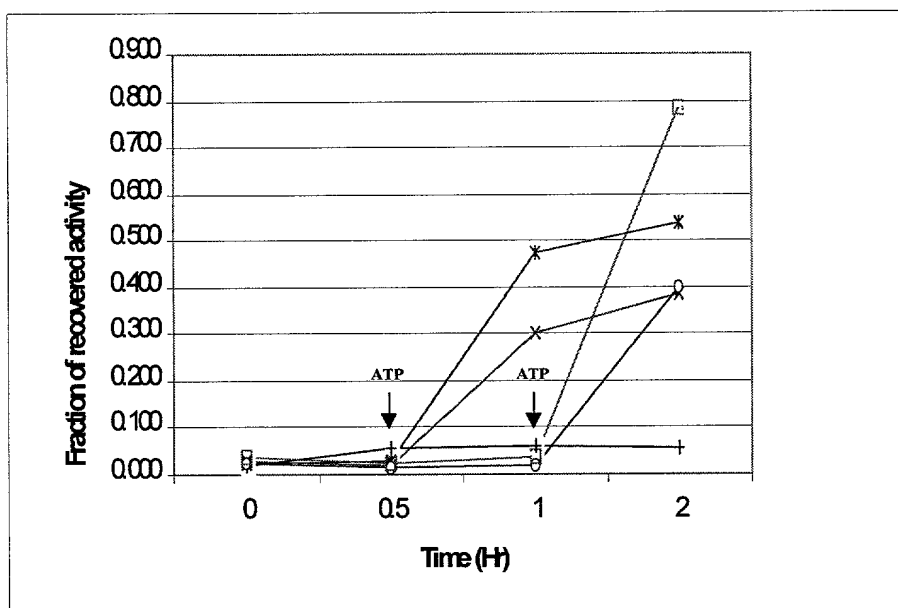


- Key
- 1 No GroEL, beads alone
 - 2 GroEL-Beads, no ATP
 - 3 GroEL-Beads -> 35% Glycerol + 5mM ATP
 - 4 GroEL-Beads -> 35% Glycerol + 5mM ATP (second replicate of same beads) indicates that the EL-Beads are reusable

Note Beads were used for prior experiments, with GS

FIGURE 5

Glutamine Synthetase



"+" Represents blank beads, all other symbols represent EL-beads.

(+) GS refolding with blocked beads alone no chaperonins present.

(X) incubation of GS-immobilized chaperonin complex for ½ hour before 5 mM and 10 mM $MgCl_2$ added. Activity was followed over two hours.

(Star *) incubation of GS-immobilized chaperonin complex for ½ hour before 5 mM and 10 mM $MgCl_2$ added. The beads were reused from previous (X) experiment.

(Open circle) – Refolding of GS from immobilized chaperonin system on beads – this experiment shows that the activity of GS is recovered after the chaperonin-GS complex was incubated for one hour. At that time, 5 mM ATP and 10 mM $MgCl_2$ was added. Activity was monitored one hour later.

(Open square) – same as open circle only refolding of GS from immobilized chaperonin beads with a second replicate. This experiment shows that the immobilized chaperonin system can be reused with comparable results after the Chaperonin-GS complex was incubated for one hour.

FIGURE 6

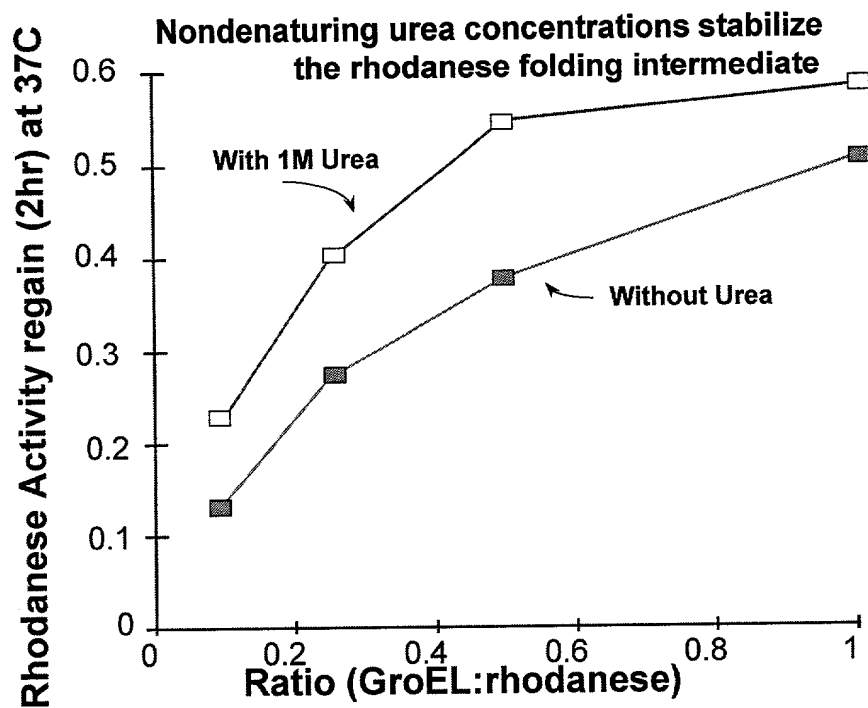


FIGURE 7

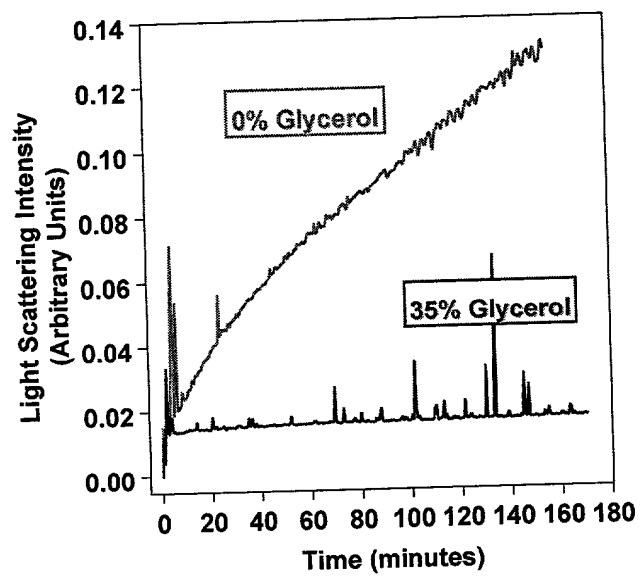


FIGURE 8

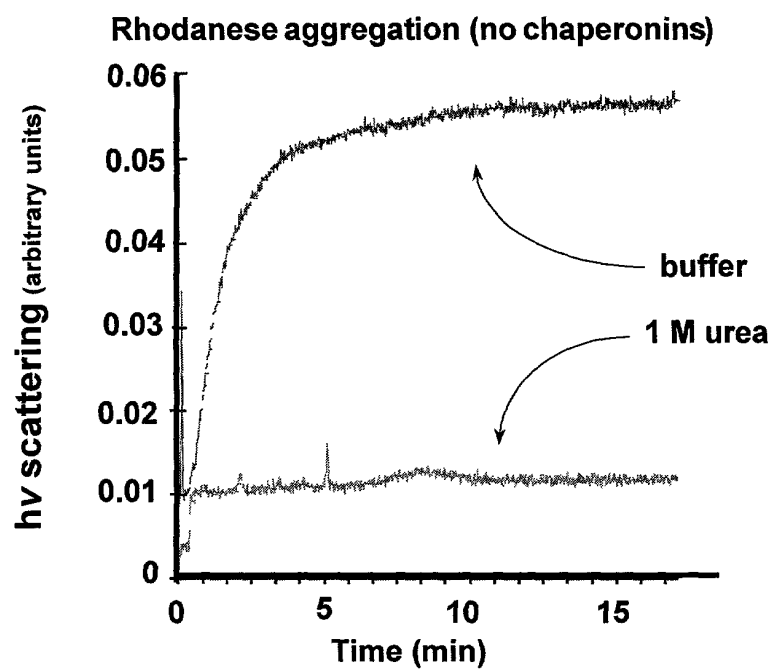


FIGURE 9

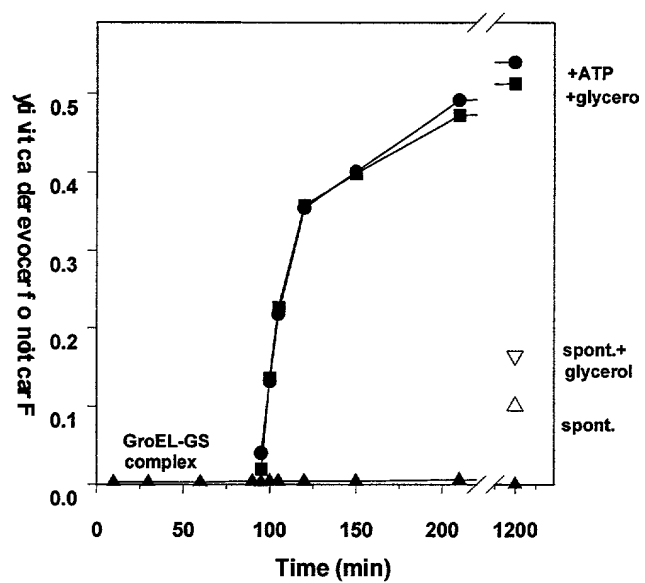


FIGURE 10

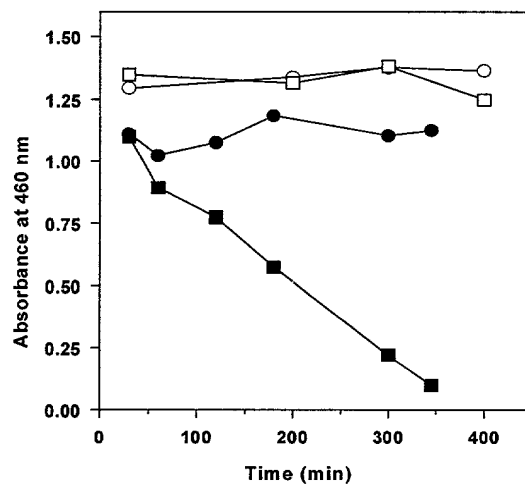


FIGURE 11

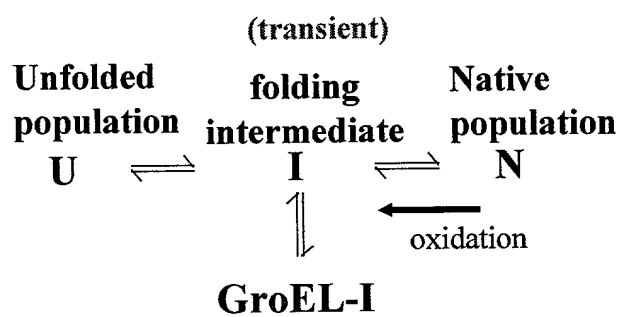


FIGURE 12

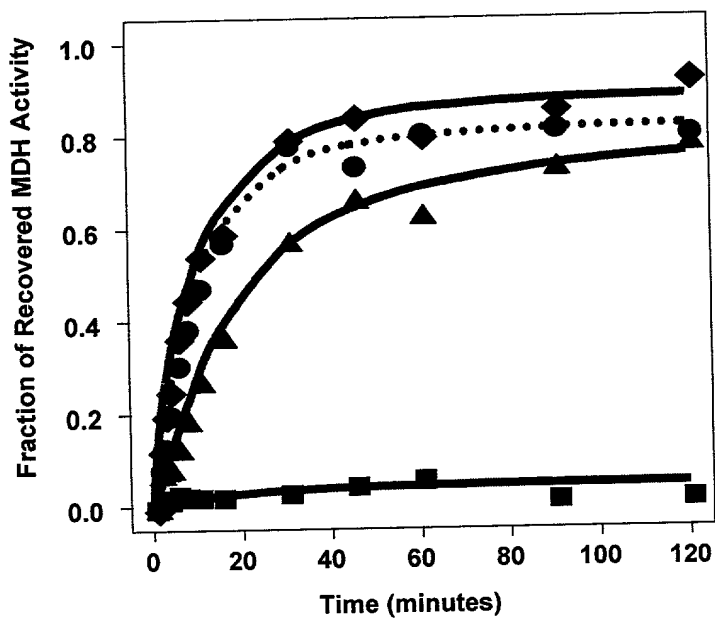


FIGURE 13